(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 13 January 2005 (13.01.2005)

PCT

(10) International Publication Number WO 2005/002507 A2

(51) International Patent Classification⁷:

A61K

(74) Agent: LEGAARD, Paul, K.; Cozen O'Connor, 1900 Market Street, Philadelphia, PA 19103 (US).

(21) International Application Number:

PCT/US2004/017490

- (22) International Filing Date: 3 June 2004 (03.06.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/475,324 3 June 2003 (03.06.2003) US 10/618,553 11 July 2003 (11.07.2003) US 10/823,448 13 April 2004 (13.04.2004) US

- (71) Applicants (for all designated States except US): ISIS PHARMACEUTICALS, INC. [US/US]; 2292 Faraday Avenue, Carlsbad, CA 92008 (US). ELI LILLY AND COMPANY [US/US]; Lilly Corporate Center, Indianapolis, IN 46285 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BHAT, Balkrishen [IN/US]; 911 Rosemary Avenue, Carlsbad, CA 92009 (US). PATET, Bharvin, Kumar [US/US]; 14255 Esprit Drive, Westfield, IN 46074 (US). SWAYZE, Eric [US/US]; 7789 Palenque Street, Carlsbad, CA 92009 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

GW, ML, MR, NE, SN, TD, TG).

Published:

ZW.

without international search report and to be republished upon receipt of that report

SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: MODULATION OF SURVIVIN EXPRESSION

(57) Abstract: Compounds and compositions are provided for modulating the expression of survivin. The compounds, exemplified by those acting through an RNAi antisense mechanism of action, include double-stranded and single-stranded constructs, as well as siRNAs, canonical siRNAs, blunt-ended siRNAs and single-stranded antisense RNA compounds. Methods of using these compounds for modulation of survivin expression and for treatment of diseases associated with expression of survivin are provided.